

REMARKS/ARGUMENTS

Applicant thanks the Examiner for the thorough examination of the claims as evidenced in the Office Action dated July 22, 2004. Applicant respectfully requests reconsideration of the rejections to the claims contained therein.

Claims 1, 6, 8-10, and 17-18 have been amended by this Response. Claims 15, 16 and 19 have been canceled by this Response without prejudice. New claims 20-23 have been added by this Response. Claims 1-14, 17-18, and 20-23 are currently pending in this application.

The Examiner objected to claim 16 as being of improper dependent form. Claim 16 has been canceled without prejudice, thereby rendering moot the Examiner's objection thereto.

The Examiner rejected claims 1-9 and 17-19 under 35 U.S.C. § 112, second paragraph, asserting insufficient antecedent basis for limitations in the following claims:

Claim 1: "said magnitude" has been changed to "a magnitude of said filtered phase difference".

Claim 6: "said magnitude" now has sufficient antecedent basis because of the above change to claim 1. Furthermore, "said at least one cycle slip comparator" has been amended to "said comparator", which has sufficient antecedent basis in claim 6 line 6.

Claim 8: the claim has been amended to depend from claim 7, which recites a positive comparator and a negative comparator. Also, "said bipolar pulse" and "said bipolar pulse frequency" have been amended to "a bipolar pulse" and "a bipolar pulse frequency."

Claim 9: "said bipolar pulse" and "said bipolar pulse frequency" have been amended to "a bipolar pulse" and "a bipolar pulse frequency."

Claims 17 and 18 have been amended to depend from amended claim 10, which recites "a cycle clip size" in line 23 therein.

Claim 19 has been canceled without prejudice. However, claim 10 and new claim 25, which both include the subject matter of claim 19, recite "a compensated..." instead of "said compensated...."

Applicant believes the above amendments and cancellations fully address the Examiners rejections under 35 U.S.C. § 112, and respectfully request the Examiner to withdraw said rejections.

Applicant thanks the Examiner for indicating allowable subject matter in the application.

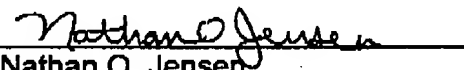
The Examiner rejected claim 10 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 4,015,083 to Bellisio. The Examiner rejected claim 14 under 35 U.S.C. § 103(a) as being unpatentable over Bellisio in view of U.S. Patent No. 4,516,250 to Grimes. The Examiner further rejected claim 15 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,790,613 to Tateishi in view of Bellisio and Grimes. Applicant respectfully traverses these rejections.

Applicant has amended independent claim 10 to include the subject matter of claims 15 and 19, which the Examiner indicated would be allowable if so written. Claim 10 is therefore allowable. Claims 11-14 and 17-18 depend from allowable claim 10 and are also allowable for the same reasons claim 1 is allowable.

Applicant has inserted new claims 20-23 into the application. These new claims, and all other amendments entered by this Response, are fully supported in the application as originally filed. No new matter has been entered into the application by any part of this Response. Independent claim 20 contains the subject matter of claim 10 and claim 11, which the Examiner indicated would be allowable if written in independent form. New claim 20 is therefore allowable. New claims 21-23 depend from allowable claim 20 and further recite subject matter similar to that of claims 14, 15, and 19, respectively, as originally filed. New claims 21-23 are therefore allowable.

Accordingly, with entry of the amendments and consideration of the arguments and remarks contained herein, all pending claims are now allowable, and a notice of Allowance is earnestly solicited. The Examiner is invited to contact the undersigned attorney if further issues remain in the prosecution of this application.

Respectfully Submitted,


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